

AGRICULTURAL PEAK LOAD REDUCTION PROGRAM APPLICATION FORM

Revised June 21, 2001

Program Management: California Energy Commission

1516 Ninth Street Sacramento, CA 95814 (916) 654-4381

If you are a water agency send this completed application and supporting documentation to:

Agricultural Peak Load Reduction Program Irrigation Training and Research Center California Polytechnic State University San Luis Obispo, CA 93407 (805) 756-7408

All others send this completed application and supporting documentation to:

Agricultural Peak Load Reduction Program Center for Irrigation Technology California State University, Fresno 5370 North Chestnut Avenue, M/S OF 18 Fresno, CA 93740-8021 (866) 297-3029





IRRIGATION TRAINING AND RESEARCH CENTER

California Polytechnic State University San Luis Obispo, CA

Agricultural Peak Load Reduction Program

This is the Application Form for the Agricultural Peak Load Reduction Program. It must be filled-out completely and clearly. Incomplete or unclear project proposals will be returned to the applicant. Applications may include multiple projects. Each project should be documented on a separate Project Proposal Worksheet.

IMPORTANT! – Note that Category 2 projects for a pump repair/retrofit should use the Category 2 Project Proposal Worksheet.

Supporting Documentation Requirements

All applications must contain a project budget and a clear description of how peak electricity demand savings will be achieved (if applicable). For Category 1 and 3 projects estimated to save 200 kW or more, the analysis of demand savings must be signed by a licensed engineer in the state of California.

Provide supporting documents used to estimate the existing and post-project peak period demand. Supporting documents include, but are not limited to:

- Energy audits performed by knowledgeable and experienced companies
- Utility billing records for the previous 12 months or peak period (June September) as applicable.
- Equipment descriptions, including manufacturer's performance ratings (such as horsepower, BTU/hour, gallons/hour flow, etc.)
- Pump efficiency tests.
- Operation records, other than utility billing records, if available.
- Engineering calculations

Measurement and Verification Plan

The measurement and verification plan is critical. Peak period load reductions must be verifiable. It is the applicant's responsibility to propose a clear, viable, reliable, and accurate plan for measuring and verifying peak period load reductions. Verification plans might include:

- Inspection of utility billing records where time-of-use service meters have been set (note that installing a time-of-use meter may be a condition of project acceptance.
- Direct measurement of kW demand by installed instrumentation or an experienced electrician.
- Indirect proof of demand reductions based on other operational measurements and an approved engineering model.

Agricultural Peak Load Reduction Program

Application Summary (attach a Project Proposal Work Sheet for each Project in this Application)

Application name/Designation:				Number of Individual Projects in this Application:		
Individual/Organization/Company/Water Agency Name:						
Business Type:	Phone:			Fax:		
Street/Mailing Address:			ļ			
City:			State:		Zip Code:	
Contact Name:					l	
Street Address:						
City:		S	State:	zate: Zip Code:		
Phone:	Fax:			E-mail:		
Estimated Reduction in Peak Electric Demand in	in kW's Estimated Grant:		ı			
[] Category 2. Pump Retrofit/Repair [] Category 3. Advanced Metering/Te [] Category 4. Natural Gas-powered E I hereby certify under penalty of and in any attachments is true and	equipment Retrofit f perjury that all i	-			his application	
Printed Name of Responsible Party:	Title:					
Signature of Responsible Party:	Date:					
For Grant Administrator Use Only: APLRP Application #:		Adminis	strato	r:		
Date/Time Received: Postmarked:		By: Delivered by:				
Project Evaluation by:	Date Started:			Date Finished:		
Project Accepted by:	Date:					
Project Verification by:	Date:					
Estimated Grant Payment: \$ Actual First Payment: \$ Actual Second Payment: \$	Date Date					
Verified kW Load Reduction:	By:				Date:	

Agricultural Peak Load Reduction Program Categories 1, 3, and 4 Project Proposal Work Sheet

(Fill out one for each Project within the Application - Attach extra sheets as needed)

1. Project Name: (for all Categories)	
Utility servicing this equipment/project	
Account number:	Rate Schedule:
2. [] Applicant certifies that this projeconservation program funded by the Pu	ect has not and will not receive any funds from any energy blic Goods Charge fund
3. Project Description: (for all Cate Proposed New Equipment (list all with nar available):	mes, size, and performance data; attach manufacturer's data if
	st all with names, size, and performance data; attach modifications to each):
Software to be Replaced or Modified (incl	ude a reason for the replacement or modification):
equipment to be replaced or modified. If	t. Include a sketch layout/floor plan showing the location of all a Category 1 or 3 project, describe how the project will reduce in 12 PM to 6 PM Monday through Friday, excluding holidays
more projects). The budget should include design/engineering costs, c) installation/mo	provide a consolidated budget if this Application includes two or e at a minimum a summary of a) equipment costs, b) odification costs, d) commissioning costs, and e) permitting uppliers/contractors should be submitted if available.
4. kW Load Reduction Calculati	ions: (Ignore this if a Category 4 project)
Attach documentation as needed to suppor established. Refer to section Supporting I	t/explain how the Existing and Post-Project kW demand are Documentation Requirements above.
Existing Peak Period kW demand:	

How established:			
Post Project Peak Period kW demand:			
How estimated:			
5. Measurement and Verification Category 3 project associated with an approx			
Describe how peak period kW reductions with the only load on the service meter, describe l			
6. Summary of Project: (for all Cates			
Proposed kW reduction during peak period			_kW (Ignore for Category 4 projects)
Total project cost	\$		_
\$/kW project cost	\$		_/kW (Ignore for Category 4 projects)
Estimated Construction Start Date			_
Estimated Construction Finish Date			_
7. Incentive Payment Calculator:	(for all Categor	ies)	
For Category 1 and 3 projects:			
a. 65% of the project cost: b. kW reduction * \$/kW(see schedule): Grant schedule for Category 1 and 3 projects: \$350/kW by July 31, 2001 \$300/kW by Sept. 20, 2001 \$250/kW by March 31, 2003	\$ \$		
Lessor of line a or line b. = CEC Gr	rant:	\$	
For Category 4 projects:			
a. 65% of the project cost:	\$		
Lessor of line a. or $$300,000 = CEC$	C Grant:	\$	
8. Retroactive Payment: (for Categor	ry 1 projects on	ly)	
The purchase of Category 1- High efficiency conditions of this grant may be retroactive to			ent qualifying under the
If YES, you must provide documentation occurred before January 1, 2001	showing that	no purchase of	equipment or services
Does this project plan to submit for retroacti	ve payment?	Yes 1	No

Provide general information about the positive or potentially negative environmental impact the project would have? None __ Low __ Medium __ High __ Explain: **Design/engineering and Permitting:** What are the design/engineering and permitting requirements for the project? Design needed: Yes ___ No ___ Permit required: Yes No If YES, which permits and from what agency? At what stage is the project design and permit approval at? Have not started Started but not completed _____ (estimated completion date) _____ Completed **10.** Construction/installation complexity: (for all Categories) Will this project be constructed with in-house personnel or with outside contractors? How many sub-contractors are required to complete the work? 11. Project Funding: If the applicant is a public agency, has funding for the project been approved by the district directors? Yes No ____ If not, when is approval anticipated or scheduled? _____ **12. Experience and History of Applicant:** (for all Categories) Do you have experience with similar projects in the past? Yes No What internal/external resources will be used for the management of the project (i.e. in-house engineering and/or outside consulting support)?

9. Environmental: (for all Categories)

Agricultural Peak Load Reduction Program Category 2 Project Proposal for Pump Repair/Retrofit Work Sheet

(Fill out one for each Pump Repair/Retrofit Project within the Application - Attach extra sheets as needed)

this equipment/pr	roject				
Account number:			Rate Schedule:		
			y funds from any energy		
t certifies that tl	his pump was ope	rational (i.e. able to pui	np water) at the time of th		
		Voltage			
ng (if known): St	andard High ef	ficiency Premium hig	gh efficiency		
been rewound?	Yes No				
ntrolled by a vai	riable frequency d	rive? Yes No			
Well turbine	Centrifugal	Submersible	Short-coupled turbine		
Unknown	Axial	Semi-Open	Closed		
Water well	Pressure boost	Low-lift canal/ditch	Tailwater return		
pumping plant	efficiency (if know	vn):			
all pumping plan	t efficiency after	repair/retrofit (if estima	ted):		
or replacement (or rewind ring/spider replacement eller repair eller replacement vl/Volute repair vl/Volute replacement ing stage(s) (if a	describe type, eff ratement (describe type, moment (describe type turbine)	odel)e, model)			
	t certifies that the ogram funded by the certifies that the certifies that the certifies that the certifies that the certifies the certifies the certifies the certifies the certifies the certifies that the certifies the certifie	t certifies that this project has not ogram funded by the Public Good t certifies that this pump was open to certifie the certifies that this pump repair be to commercial pump repair be to commercial pump repair be to certifie the certifies the c	wer Speed Voltage g (if known): Standard High efficiency Premium high been rewound? Yes No ntrolled by a variable frequency drive? Yes No Well turbine Centrifugal Submersible Unknown Axial Semi-Open Water well Pressure boost Low-lift canal/ditch pumping plant efficiency (if known): all pumping plant efficiency after repair/retrofit (if estimator replacement (describe type, eff rate) or revind ring/spider replacement eller repair eller replacement (describe type, model) d/Volute repair vl/Volute repair vl/Volute replacement (describe type, model) were voltage remove very serious premium high eller replacement (describe type, model) vl/Volute repair vl/Volute replacement (describe type, model) vl/Volute replacement (describe type, model) vl/Volute replacement (describe type, model) vl/Volute replacement (describe type, model)		

o. Project Cost and Completion:		
otal project cost \$ Estimated Finished Repair Date		
9. Incentive Payment Calculator (choose Annual kWh usage (kWh): based of (Provide utility billing if based on Previous 12 months)	on: Previous 12 months Estimated Next 12 months	
Option 1: a. 65% of the project cost:	\$	
Pre-project operating plant efficiency (Pre-OPE): Estimated post-project operating plant efficiency		
b10 * (kWh – (kWh * Pre-OPE / Post-OPE)):	\$	
Lessor of line a or line b. = CEC Grant:	\$	
Option 2: a. 65% of the project cost:	\$	
b10 * .25 * kWh:	\$	
Lessor of line a or line b. = CEC Grant:	\$	
10. Project Funding:		
If the applicant is a public agency, has funding for	the project been approved by the district directors?	
Yes No		
If not, when is approval anticipated or scheduled?		
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